

UA WILD CAT CENTER

UNIVERSITY OF ARIZONA **WILD CAT** RESEARCH & CONSERVATION CENTER

School of Natural Resources and
the Environment

Lisa Haynes, Coordinator

www.UAWildCatResearch.org

University of AZ Jaguar Survey Project

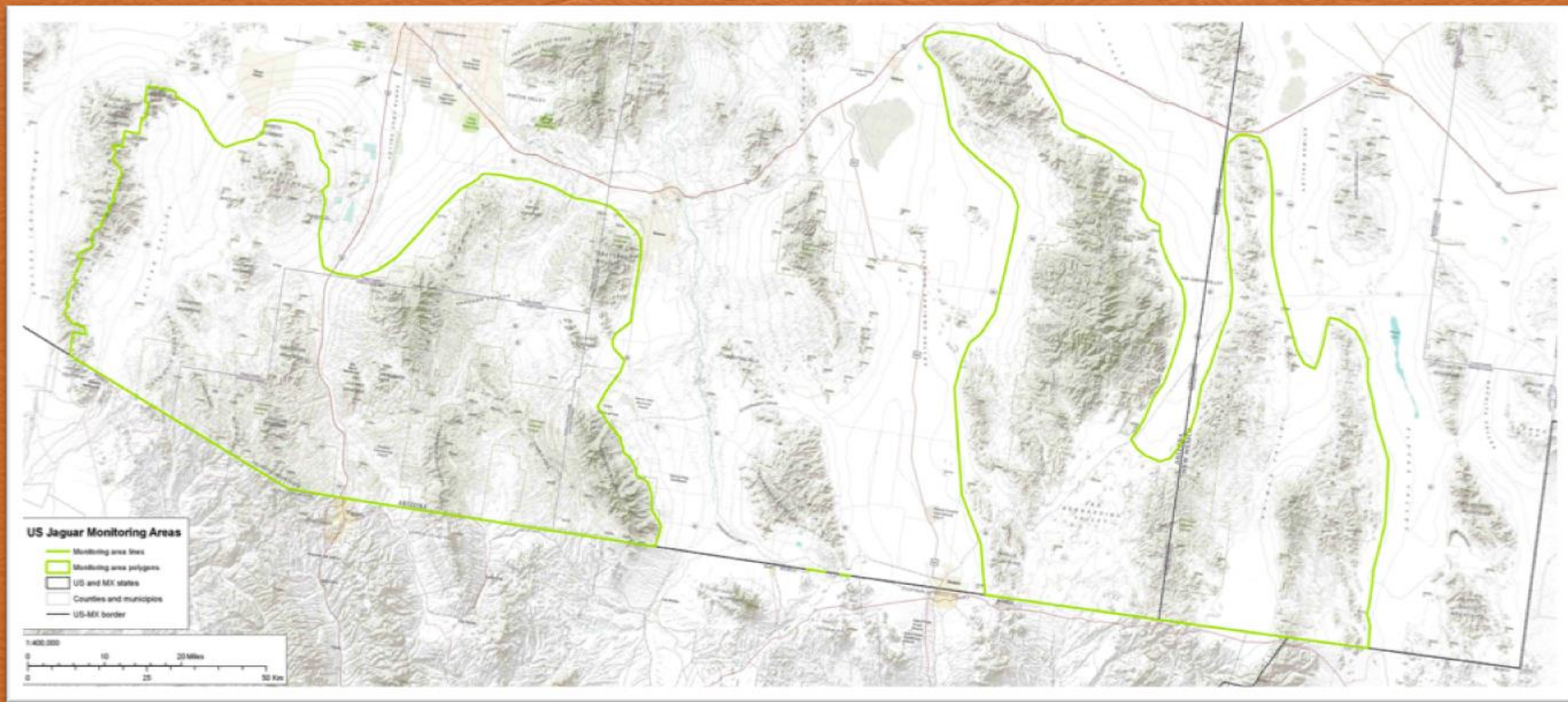
- DHS → USFWS → RFP → University of AZ
- Study area: mountainous regions from the Baboquivaris in SE AZ to the “bootheel” of NM
- UA: Highly experienced, interdisciplinary team
 - Melanie Culver, PI (Conservation Genetics)
 - Lisa Haynes, Project Manager
- Noninvasive techniques only: ir-cameras/scat

USFWS: Endangered Species Act

- U of A/DHS survey study is separate from ESA process
- FWS Timelines:
 - Critical Habitat proposed rule to designate: 2012
 - Critical Habitat final rule: 2013
 - Draft Recovery Plan: Winter 2013?
 - Final Recovery Plan: Winter 2014?

UA study: 2012 – 2015

Study Area



Objectives

Major Goals

- Uniquely identify each jaguar/ocelot from photos
- Identify species and individual jaguars/ocelots from genetic analyses of scat
- Comprehensive analyses of all wildlife photo data
- Characterize jaguar habitat using GIS habitat model based on project data

TECHNIQUES:

- Motion-sensor cameras: ~140 sites across study area — paired cameras (280 total)
 - Checked every 4, 7, or 11 weeks, some camera sites moved to identify the best sites
- Scat collection for genetic analysis to ID species, possibly individual.
- If a jaguar/ ocelot is detected, additional cameras and engage a specially trained scat-detection dog

Analytical Methods

- With photo data, analyze indices such as:
 - species richness, species accumulation rate, species detection rate, activity pattern for all species, occupancy for each species, proportion of all species at each location, density of jaguars, ocelots and other species that can be uniquely identified, prey presence and abundance
- => one of the most comprehensive assessments of wildlife on a regional scale**

Agency Coordination/Permits

- 14+ Agencies across AZ and NM
 - Federal and state land management agencies
 - State wildlife agencies (AZ and NM)
 - Department of Homeland Security/Customs and Border Protection
 - Law enforcement
 - Counties
 - Department of Defense-Fort Huachuca

RANCHER COMMUNICATION PROTOCOLS

We strive to be very respectful, courteous, and proactive with the ranching community across the study area:

- Coordinate prior to field activities (by phone, email, or in person/sign in)
- Notify jaguar/ocelot confirmation within 24 hours
- Private land access and/or camera site: must have written permission
- Results

- “ ... to protect a healthy, **unfragmented** landscape... by [maintaining]... ranching and other traditional livelihoods” (MBG and AVCA)





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6/29/02 10:45 PM

UA Wild Cat 08c





5/20/08 1:12 PM UA CAT Study 012





9/14/08 3:48 AM





11/04/08 3:50 PM

UA Wild Cat 025





9/19/08 4:21 AM

UA Wild Cat 017





3/13/09 2:59 AM UA Wildcat 029





10/02/08 6:25 PM UA wild cat 014





7/15/08 6:33 AM

AZ WildCat 015

Cuddeback



5/14/09 4:53 AM UA wildcat 01





9/08/08 1:53 AM AZ WildCat 004





1/12/12 5:48 PM UA CAT Study 021





Covert

05.20.2013 20:04:03



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08.14.2013 12:15:19



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05.22.2013 00:59:32



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02.05.2013 20:15:32



Covert

10.25.2012 22:51:12



Covert

12.31.2012 01:50:46





Covert

05.29.2013 01:42:36



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09.11.2013 20:41:58



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11.10.2012 19:23:15

CONSERVATION OF THE WORLD'S WILD CATS!

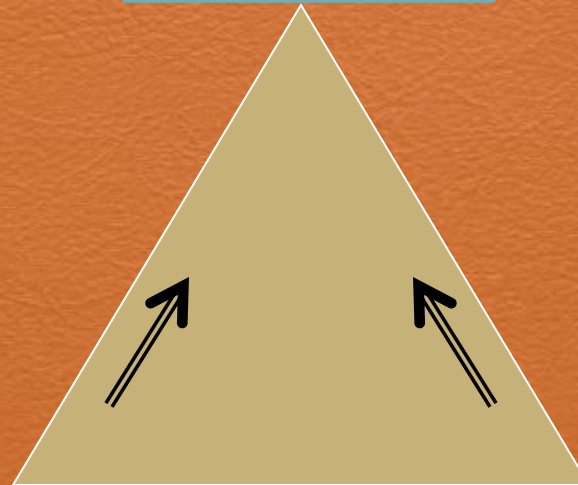
SOCIETY

- Citizen Science
- Local Media
- Social Science
- Conflict Solutions
- Website
- Volunteers
- K-12 Education
- Social Media

SCIENCE

- Academic foundation
- Data systems/GIS
- Genetics
- Field Expertise & Support
- Equipment
 - IR Cameras
 - Telemetry
 - GPS, etc..
- Computer / IT

INTERNATIONAL/US
STUDENTS &
BIOLOGISTS



CONTRIBUTIONS!!

**Grants &
Contracts**

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Wild Cats - 36 Species

- * Sand Cat
- * Pallas Cat
- * Andean Mountain Cat
- * Borneo Bay Cat
- * Fishing Cat
- * Rusty Spotted Cat
- * Chinese Desert Cat
- * Caracal
- * Guina (Kodkod)
- *



GO CATS!!!



Jim Sanderson